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Application Number

374 331

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US005871734A

United States Patent [19][11] **Patent Number:** 5,871,734

Lobb et al.

[45] **Date of Patent:** Feb. 16, 1999[54] **TREATMENT FOR ASTHMA WITH VLA-4 BLOCKING AGENTS**[75] **Inventors:** Roy R. Lobb, Westwood; Linda C. Burkly, West Newton, both of Mass.[73] **Assignee:** Biogen, Inc., Cambridge, Mass.[21] **Appl. No.:** 822,830[22] **Filed:** Mar. 21, 1997**Related U.S. Application Data**

[63] Continuation of Ser. No. 456,193, May 31, 1995, abandoned, which is a continuation-in-part of Ser. No. 374,331, Jan. 18, 1995, abandoned, which is a continuation-in-part of Ser. No. 256,631, Dec. 1, 1994, abandoned, which is a continuation-in-part of PCT/US93/00030 Jan. 12, 1993, which is a continuation-in-part of Ser. No. 821,768, Jan. 13, 1992, abandoned.

[51] **Int. Cl.⁶** A61K 39/395; A61K 35/12; A61K 38/17

[52] **U.S. Cl.** 424/144.1; 424/130.1; 424/133.1; 424/171.1; 424/143.1; 424/153.1; 424/154.1; 424/173.1; 514/2; 514/8; 514/885

[58] **Field of Search** 424/130.1, 133.1, 424/143.1, 154.1; 530/387.1, 388.22; 514/2, 8

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Primary Examiner—Lila Feisce**Assistant Examiner**—Phillip Gambel**Attorney, Agent, or Firm**—Louis Myers, Esq.; Lahive & Cockfield, LLP[57] **ABSTRACT**

A method for the treatment of asthma is disclosed. The method comprises administration of an antibody, polypeptide or other molecule recognizing VLA-4, a protein expressed on the surface of certain leukocytes such as eosinophils.

22 Claims, 12 Drawing Sheets

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